## Object position detector.

Patent number:

DE69324067D

**Publication date:** 

1999-04-29

Inventor:

MILLER ROBERT J (US); BISSET STEPHEN J (US)

**Applicant:** 

SYNAPTICS INC (US)

Classification:

- international:

G06K11/16

- european:

Application number: DE19936024067 19930607 Priority number(s): US19920895934 19920608

Abstract not available for DE69324067D Abstract of correspondent: EP0574213

A proximity sensor system includes a sensor matrix array having a characteristic capacitance between horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by analog circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. The profile of position may also be integrated to provide Z-axis (pressure) information.

FIG. 1a

Also published as:

EP0574213 (A1)

EP0574213 (B1)

Data supplied from the esp@cenet database - Worldwide

Best Available Copy